

Amendments to the Claims

This listing of claims will replace all prior versions and listing of claims in the application:

Claims 1 – 41 (canceled).

Claim 42 (currently amended). A method of post processing an article formed by selective deposition modeling to remove a support structure, the article comprising a three-dimensional object and the support structure, the three-dimensional object formed from a curable phase change composition and the support structure formed from a non-curable phase change composition, the method comprising the following steps:

- (a) providing a temperature controllable environment for the article having an initial temperature above the melting point of the non-curable phase change composition;
- (b) placing the article in the temperature controllable environment, the temperature controllable environment being the liquid non-curable phase change composition as a heat transfer medium;
- (c) holding the temperature of the controllable environment formed by the liquid non-curable phase change composition above the melting point of the non-curable phase change composition until substantially all of the support structure transitions to a flowable state and is removed from the three-dimensional object;
- (d) removing the three-dimensional object from the controllable environment formed by the liquid non-curable phase change composition and;
- (e) cooling the three-dimensional part.

Claim 43 (previously presented). The method of claim 42 wherein the temperature of the controllable environment formed by the non-curable phase change composition is above the melting point of the non-curable phase change composition to about 150° C.

Claim 44 (previously presented). The method of claim 42 wherein the temperature of the controllable environment formed by the non-curable phase change composition is between above about 45° C to about 150°C.

Claim 45 (previously presented). The method of claim 42 wherein the temperature of the controllable environment formed by the non-curable phase change composition is between above about 45° C and 90° C.

Claim 46 (previously presented). The method of claim 42 wherein the step of holding the temperature of the controllable environment above the melting point is accomplished for a time period of at least about 20 minutes.

Claim 47 (previously presented). The method of claim 42 further comprising using a heat transferring medium of air in addition to the liquid non-curable phase change composition in the temperature controllable environment.

Claim 48 (currently amended). A method of post processing an article formed by selective deposition modeling, the article comprising a three-dimensional object and a support structure, the three-dimensional object formed from a curable phase change composition and the support structure formed from a non-curable phase change composition, the method comprising

the following steps:

- (a) providing a temperature controllable environment for the article having an initial temperature above the melting point of the non-curable phase change composition;
- (b) placing the article in the temperature controllable environment, the temperature controllable environment using the liquid non-curable phase change composition as a heat transferring medium and at least one other heat transferring medium selected from ~~the group consisting of the liquid non-curable phase change composition~~, air and water;
- (c) holding the temperature of the controllable environment above the melting point of the non-curable phase change composition until substantially all of the support structure transitions to a flowable state and is removed from the three-dimensional object; and
- (d) removing the three-dimensional object from the temperature controllable environment formed by the liquid non-curable phase change composition.

Claim 49 (canceled).

Claim 50 (previously presented). The method of claim 48 wherein steps (a) through (d) are completed in the heat transferring medium of water.

Claim 51 (previously presented). The method of claim 48 wherein the melting point of the non-curable phase change composition is between about 45° C to about 65° C, and the freezing point of the curable phase change composition is between about 33° C to about 60° C.

Claim 52 (previously presented). The method of claim 50 further comprising using a heat transferring medium of air in addition to the water or liquid non-curable phase change composition in the temperature controllable environment.

Claim 53 (cancelled).

Claim 54 (previously presented). A method of post processing an article formed by selective deposition modeling to remove a support structure, the article comprising a three-dimensional object and the support structure, the three-dimensional object formed from a curable phase change composition and the support structure formed from a non-curable phase change composition, the method comprising the following steps:

- (a) providing a temperature controllable environment for the article having an initial temperature above the melting point of the non-curable phase change composition;
- (b) placing the article in the temperature controllable environment, the temperature controllable environment using as a heat transferring medium at least the liquid non-curable phase change composition;
- (c) removing substantially all of the support structure in a flowable state from the article; and
- (d) removing the three-dimensional object from the temperature controllable environment formed by the liquid non-curable phase change composition.

Claim 55 (previously presented). The method of claim 54 wherein the heat transferring medium is further selected from the group consisting of air and water.

Claim 56 (previously presented). The method of claim 54 wherein steps (a) through (d) are completed in the heat transferring medium of water.

Claim 57 (previously presented). The method of claim 54 wherein the melting point of the non-curable phase change composition is between about 45° C to about 65° C, and the freezing point of the curable phase change composition is between about 33° C to about 60° C.

Claims 58 – 59 (canceled).